2.

5.

7.

(Pages: 3)

Maximum: 200 marks

Time: 11/2 hours

PARTA

4 mark each

(Each answer should be limited to one sentence)

- . What are the major components in a software process?
- List the different registers used in a computer.
- 3. What are the different types of coupling exist in object oriented systems?
- 4. What are the parameter passing techniques used in programming languages?
 - What are the different types of CPU organizations?
- 6. What are the storage classes used in C?
 - What are the different types of assembly language statements?
- 8. Distinguish between constructor and destructor.
- 9. What are the data type qualifiers used in C?
- 10. How do you create a sharable objects?
- 11. Perform the following conversions:
 - (a) 11010.1012 to decimal

(b) CAD to binary

(c) 453s to decimal

- (d) BAD to octal
- 12. What are the events pertaining to a process?
- 13. What are the different CPU scheduling policies?
- 14. Implement basic logic gates using NAND gate.
- 15. What are the different types of Internet connections?

- 16. What are the components of LAN?
- 17. What are the different categories of wireless networks?
- 18. Write any two data link protocols.
- 19. What are the major components of E-R diagram?
- 20. What are the aggregate functions used in SQL?
- 21. What are the applications of XML?
- 22. What are the different load effective address instructions in microprocessor instruction set?
- 23. What is interrupt vector?
- 24. What are the different interrupt instructions to microprocessor?
- 25. What are web folders?
- 26. What is data dictionary?
- 27. What are the different types of structure charts?
- 28. What are the functions of DBMS?
- 29. What is vector image?
- 30. What is secure server?

PART B

10 mark each

(Answer should be limited to one paragraph)

- 31. What are the components of software requirements specification?
- Explain any four application areas in which computers with vector processing capabilities are used.
- 33. Write a recursive function to reverse a string.
- 34. What are the different phases of compilation?

35. Write a C++ program to convert a time in 24 hour format to a time in 12 hour format using data conversion routine.

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- 36. State and prove the rules and laws of Boolean algebra.
- 37. What are the functions of paging software?
- 38. Discuss the different technologies used in mobile phones.

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